

Appl. No. 10/668,493
Attorney Docket No.: 2003B099
Amdt. dated December 16, 2005
Reply to Office Action of Nov. 2, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in this application.

Listing of Claims:

1-9 (Canceled)

10. (Currently Amended) A method for synthesizing a molecular sieve, the method comprising the steps of:

- (a) crystallizing the molecular sieve in a slurry in a reaction vessel, the slurry comprising ~~one or more of~~ a silicon source, an aluminum source, ~~and a~~ phosphorous source, and a templating agent;
- (b) settling the molecular sieve in a reaction vessel by introducing a flocculant to the slurry;
- (c) recovering the molecular sieve; and
- (d) heat treating the recovered molecular sieve at a temperature in the range of from about 50 °C to about 250 °C.

11. (Canceled)

12. (Original) The method of claim 10 wherein the in step (c), the molecular sieve is recovered by filtration.

13. (Original) The method of claim 10 wherein the amount of molecular sieve recovered is greater than 250 Kg.

14. (Original) The method of claim 10 wherein in step (d) the molecular sieve is heated to a temperature in the range of from 80°C to 150°C.

15. (Original) The method of claim 10 wherein the molecular sieve after step (d) has a carbon content in the range of from 0.1% to about 50%.

16. (Original) The method of claim 10 wherein the molecular sieve after step (d) has a LOI in

Appl. No. 10/668,493
Attorney Docket No.: 2003B099
Amdt. dated December 16, 2005
Reply to Office Action of Nov. 2, 2005

the range of from 10% to 50%.

17. (Original) The method of claim 10 wherein the molecular sieve is combined with a matrix material, and optionally a binder to form a formulated catalyst composition.

18. (Original) The method of claim 17 wherein the formulated molecular sieve catalyst composition is spray dried.

19. (Original) The method of claim 18 wherein the formulated molecular sieve catalyst composition is calcined.

20. (Currently Amended) A method for formulating a molecular sieve catalyst composition, the method comprising the steps of:

- (A) synthesizing a molecular sieve selected from one or more of the group consisting of: a silicoaluminophosphate, an aluminophosphate, a CHA framework-type molecular sieve, an AEI framework-type molecular sieve and a CHA and AEI intergrowth or mixed framework-type molecular sieve, in a reaction vessel, the method comprising the steps of:
 - (a) crystallizing the molecular sieve in a synthesis mixture;
 - (b) settling the molecular sieve in a reaction vessel by introducing a flocculant to the synthesis mixture;
 - (c) recovering the molecular sieve;
 - (d) thermally treating the molecular sieve at a temperature of from about 50 °C to about 250 °C; and
- (B) combining the thermally treated molecular sieve with a binder and a matrix material to form the molecular sieve catalyst composition.

21. (Original) The method of claim 20 wherein the molecular sieve in step (c) is recovered by filtering the synthesis mixture.

22. (Original) The method of claim 20 wherein prior to step (c) a portion of a liquid in the synthesis mixture is separated from the molecular sieve, and additional flocculant and/or

Appl. No. 10/668,493
Attorney Docket No.: 2003B099
Amdt. dated December 16, 2005
Reply to Office Action of Nov. 2, 2005

additional liquid, is introduced to the synthesis mixture.

23. (Original) The method of claim 20 wherein the reactor vessel is capable of producing greater than 250 Kg in one batch.

24. (Original) The method of claim 20 wherein in step (B) the molecular sieve catalyst composition is spray dried to form a spray dried molecular sieve catalyst composition.

25. (Original) The method of claim 24 wherein the spray dried molecular sieve catalyst composition is calcined.

26. (Canceled)

27. (Original) The method of claim 20 wherein the molecular sieve in step (d) is thermally treated at a temperature in the range of from 80°C to 150°C.

28. (Previously Presented) The method of claim 20 wherein the molecular sieve after step (d) has a carbon content in the range of from 0.1% to about 50%.

29. (Previously Presented) The method of claim 20 wherein the molecular sieve after step (d) has a LOI in the range of from 10% to 50%.

30-70. (Canceled)